British Columbia Institute of Technology (BCIT) Approved Course List for Registration with the Agrology Profession in British Columbia

List includes courses from BSc Ecological Restoration and
Bachelor of Technology Environmental Engineering degrees plus the Sustainable Resource Mgmt Diploma

To be registered as an Articling Agrologist (AAg) leading to the Professional Agrologist (PAg) designation, applicants must have obtained:

A Bachelor's Degree with a science focus from a recognized university of which the course work must consist of the following:

a. A minimum of 8 entry level foundational knowledge courses, usually at the 100 or 200 level, in the subject matters listed on the Academic Worksheet. Applicants may have more than 1 entry level course in the same subject matter and cannot double count in the other two sections of the worksheet.

These can include courses in:

- biology
- biochemistry
- hydrology
- genetics
- chemistry
- earth sciences
- physical geography
- physics
- ecology
- microbiology
- geology

May include courses that are of benefit to the study of natural sciences or agrology:

- math
- statistics
- computer science
- economics
- communications/Writing

b. At least 20 courses in agricultural **or** natural sciences **or** agricultural **or** resource economics that relate directly to agrology (as defined by the *Agrologists Regulation, 2021).*

c. At least 8 senior level courses (can come from within the above noted 20 course requirement) in agricultural **or** natural sciences **or** agricultural **or** resource economics that relate directly to agrology (as defined by the *Agrologists Regulation, 2021).* Only senior courses (3rd year level and higher) taught by a Recognized University are recognized as senior level courses.

Courses that are considered eligible for meeting the coursework requirements for BCIA registration are listed in the following categories: Agrology, Foundational Natural Science; Mathematics or Statistics; Economics, Communications /Writing and Computer Science. *The Credentials Committee has the authority to limit how many foundational courses are accepted in each subject matter.*

*Course requires supporting documentation; may or may not be accepted depending on subject matter

This course listing is a guideline only; the Credentials Committee determines eligibility based on a comprehensive course by course review ensuring the academic worksheet is optimized while remaining within the minimum registration requirements.

Approved courses with less than 3 credits may be combined to reach 3 or 3+ credits; under the discretion of the Registrar

Agrology Courses

Course ID	Title
CENV 1119	Environmental Science
CENV 2200	Bioprocessing Fundamentals
CENV 3313	Environmental Sampling and Analysis
ECOR 9100	ER and the Physical Environment
ECOR 9200	Field Applications of Restoration Principles
EENG 7213	Environmental Methods and Techniques
EENG 7216	Soil Mechanics and Hydrogeology
EENG 7221	Environmental Toxicology
EENG 7241	Contaminant Hydrogeology
EENG 7242	Groundwater Modelling
EENG 7410	Applied Climatology and Hydrology
EENG 7415	Soil Mechanics and Contaminant Hydrogeology
EENG 7425	Contaminated Site Investigation and Remediation Processes
EENG 7430	Municipal and Industrial Wastewater Treatment
EENG 7717	Hydrology for EET
EENG 7719	Survey Techniques for EET
EENG 8201	Terrain and Groundwater Assessment
EENG 8211	Mining, Oil and Gas Development and Recreation
EENG 8250	Municipal Wastewater Treatment
EENG 8256	Integrated Water Resource Management
EENG 8260	Integrated Solid Waste Management
EENG 8270	Contaminated Site Investigation
EENG 8272	Contaminated Site Remediation
EENG 8273	Sampling Methods for Contaminated Sites
EENG 8281	Risk Assessment and Management
EENG 8282	Sustainability Management Systems
EENG 8285	Environmental Decision Making
EENG 8286	Environmental Impact Assessment
EENG 8290	Air Quality Management
EENG 8293	Climate, Energy and Carbon Management
EENG 8294	Applied Meteorology and Climatology
EENG 8295	Air Quality Dispersion Model
EENG 8303 *	Applied Research Project
EENG 8420	Environmental Sampling and Testing Methods 2
EENG 8750	Municipal Wastewater Treatment 1
EENG 8780	Environmental Law
EENG 8781	Risk Assessment
EENG 8783	Risk Management
FNAM 1135	Establishing Plant Communities
FNAM 1340	Hydrology and Riparian Management
FNAM 2100	Terrestrial Ecosystems & Classification
FNAM 2110	Natural Resource Sampling
FNAM 2320	Introduction to Fish & Wildlife

FNAM 3460	GIS and Remote Sensing
FNAM 3700	Fundamentals of Resource Measurements
FNAM 3820	Silviculture
FNAM 4450	Principles of Urban Forestry & Arboriculture
FNAM 4650	Forest Health
FNAM 4810	Applied Silviculture
FNAM 4850	Urban and Interface Silviculture
FSTY 405	Forest Ecosystem Modelling
GIST 7128	ARCGIS 1 - Introduction
RENR 1105	Natural Measurement 1
RENR 1120	Intro Aerial Photo and Mapping
RENR 1125	Plant Identification
RENR 2100	Ecosystem Classification
RENR 2102	ArcGIS for RENR
RENR 2110	Natural Measurement 2
RENR 3190	Environmental Monitoring
RENR 3220	Wildlife Ecology and Management I
RENR 3225	Fish Ecology and Management I
RENR 4220	Wildlife Ecology and Management 2
RENR 4225	Fish Ecology and Management 2
RENR 7001	Biological Foundations for Ecological Restoration
RENR 7002	Environmental Assessment
RENR 7003	Principles of Restoring Disturbed Landscapes
RENR 7004	Fish and Wildlife Ecology and Management
RENR 7005	Field Skills for Ecological Restoration
RENR 7100	Principles of Ecological Restoration
RENR 8001	Population and Community Ecology
RENR 8101	Terrestrial Ecosystem Restoration
RENR 8102	Restoration of Freshwater Aquatic Ecosystems
RENR 8103	Applied Conservation Biology
RENR 8104	Applications of Fire in Ecosystem Restoration
RENR 8106	Wetland and Estuary Restoration
RENR 8107	Restoring Wildlife Populations
RENR 8108	Applied Stream Channel Morphology
RENR 8109	Restoration of Old Fields and Grasslands
RENR 8110	Lake Restoration and Applied Limnology
RENR 8201	Terrain and Stream Channel Assessment for Ecological Restoration
RENR 8302 *	Applied Research Project 1
RENR 8303 *	Applied Research Project 2
SRMT 1310	Environmental Climatology Resource Management
SRMT 2300	Dendrology
SRMT 2350	Urban Soils
SRMT 2800	Vegetation Treatment Skills
SRMT 3400	Remote Sensing
SRMT 3820	Silviculture
SRMT 4650	Forest Health

SRMT 4670	Wildland and Community Fire Management
SRMT 4810	Applied Silviculture
SRMT 4850	Urban and Interface Silviculture

Foundational Natural Sciences Courses

Course ID	Title
CHEM 1121	General Chemistry
CHEM 2409	Organic Chemistry 1
CHEM 3310	Physical Chemistry
CHEM 3409	Organic Chemistry 2
EENG 7211	Chemistry and Organic Chemistry
EENG 7217	Hydrology and Hydrometrics
EENG 7710	Chemistry 1 for EET
EENG 7711	Chemistry 11 for EET
RENR 1103	Earth Science & Soils
RENR 2117	Applied Ecology in BC
RENR 7210	Applied Chemistry
PHYS 1181	Physics 1
PHYS 2149	Physics for Mechanical
PHYS 2181	Physics 2

Mathematics and Statistics Courses

Course ID	Title
MATH 1451	Technical Mathematics for Renewable Resources
MATH 2415	Statistics for CENV
MATH 2416	Calculus for CENV
MATH 2453	Statistics for Renewable Resources
MATH 3499	Differential & Linear Equations
MATH 4416	Differential Equations & Numerical Methods
MATH 7100	Biostatistics for Natural Resource Managers

Economics, Communications/Writing Courses

Course ID	Title
COMM 1145	Tech Communication 1 for RENR
COMM 2245	Tech Communications 2 for RENR
ECON****	Any microeconomics or macroeconomics course
LIBS 7001	Critical Reading and Writing